

J. Abstract Of The Disclosure

This invention describes a method, an apparatus, and a system for optimizing antenna performance by remotely adjusting the plumb-to-level (absolute measurements with respect to true vertical) and the compass heading (absolute compass heading direction with respect to magnetic North) of one or a plurality of communication antennas by electromechanical means. 5
Until now, only fixed, manual adjustments referenced to points on the tower that are assumed to be accurate, but are not, can be made. Furthermore, antenna optimization that is accomplished by solely adjusting the tilt of an antenna is limited. And, since azimuth adjustments for antenna sectors are difficult to adjust manually and are not available by electromechanical means, site 10
planning personnel have not been able to accurately compensate for changes in tower and site parameters. Also, since site surveys provide plumb-to-level and compass heading information, this invention allows remote adjustments of site parameters with absolute reference to survey data. Furthermore the invention allows antennas within a sector having antennas with capacity to spare to be swept into a sector experiencing higher traffic loads.

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